

Fig. 1

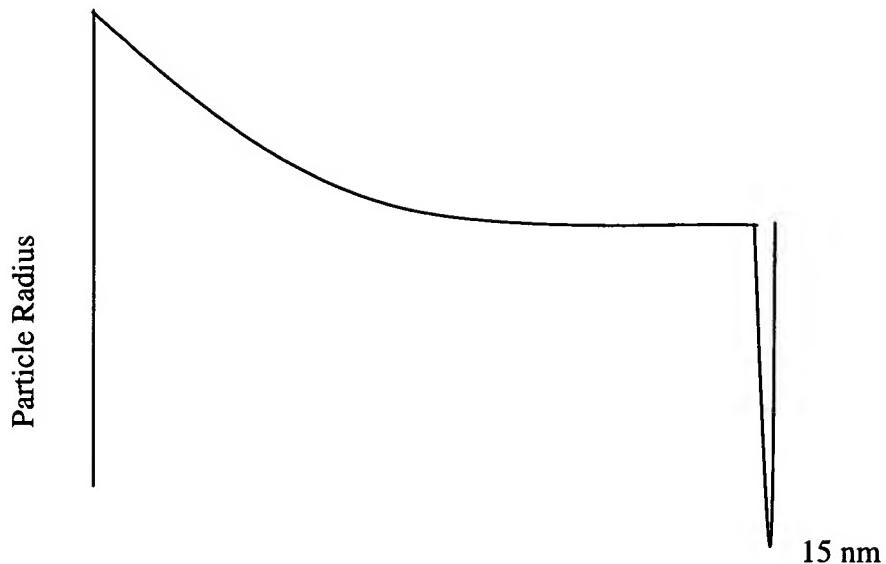


Fig. 3

**Interaction Energy Between Two Coated Magnetite Spheres s/a = 0.1
(Aligned and Touching), in eV**

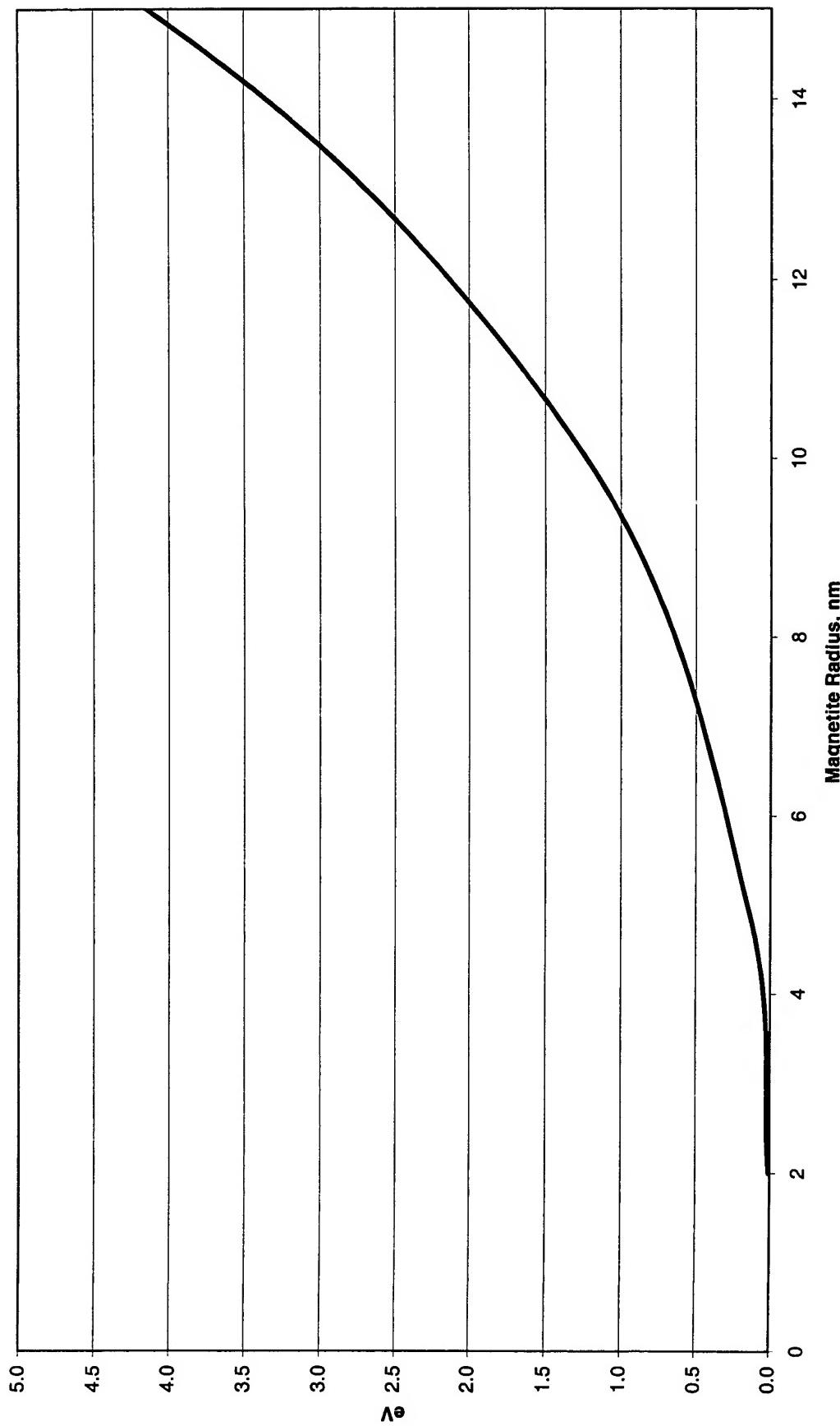


Fig. 2A

Number of 1 eV Bonds per Particle Pair Needed to Equal their Repulsive Force when 10nm dia Magnetite Core is Used with a Thick Coating

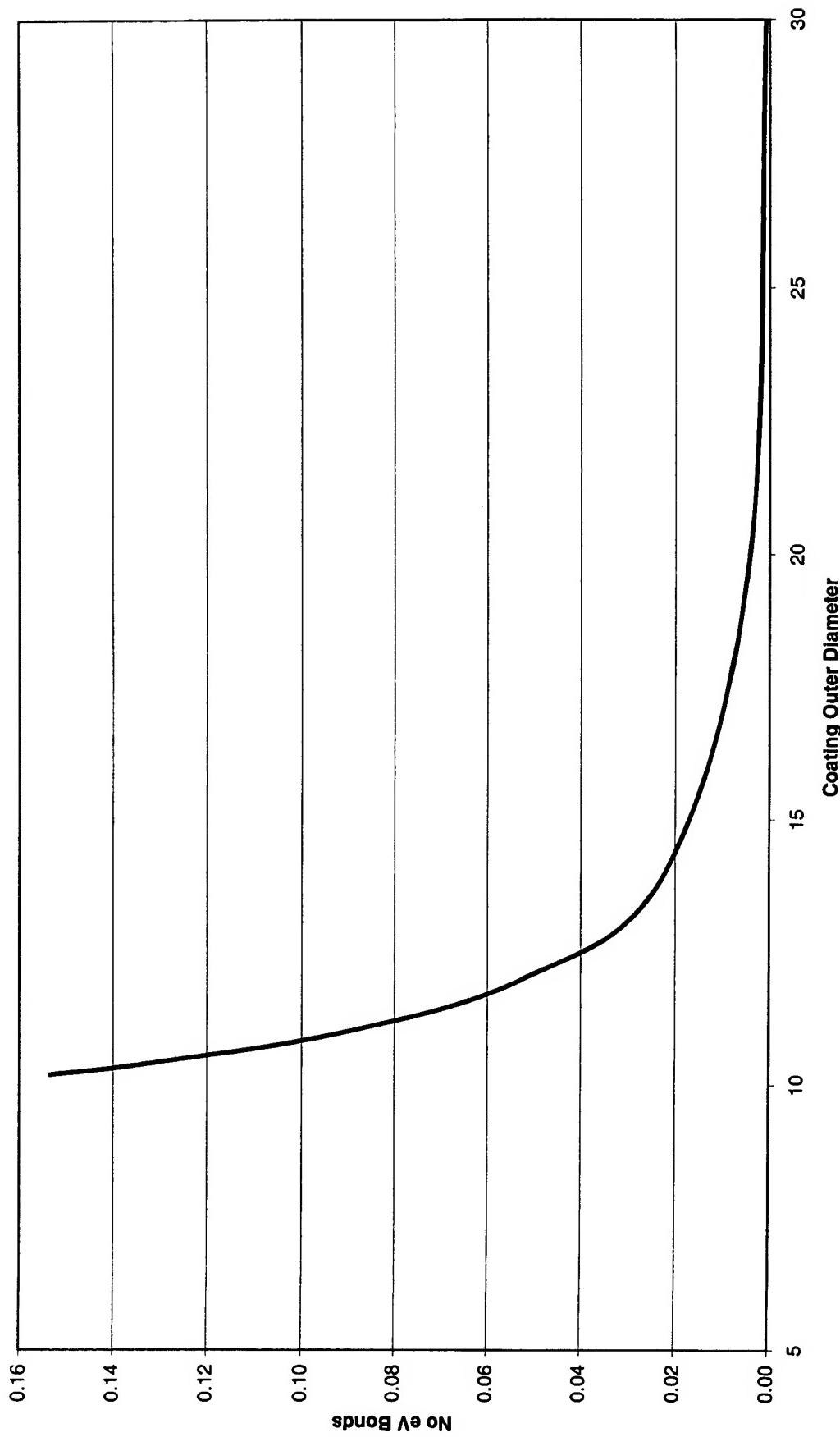


Fig. 2B

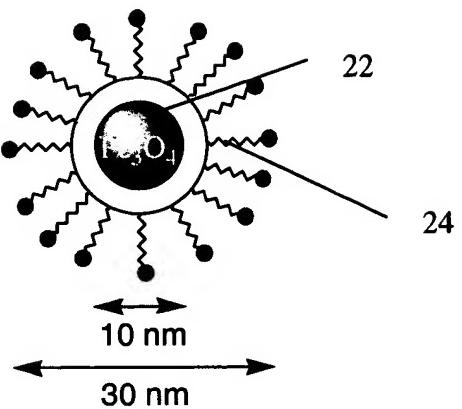


Fig. 4

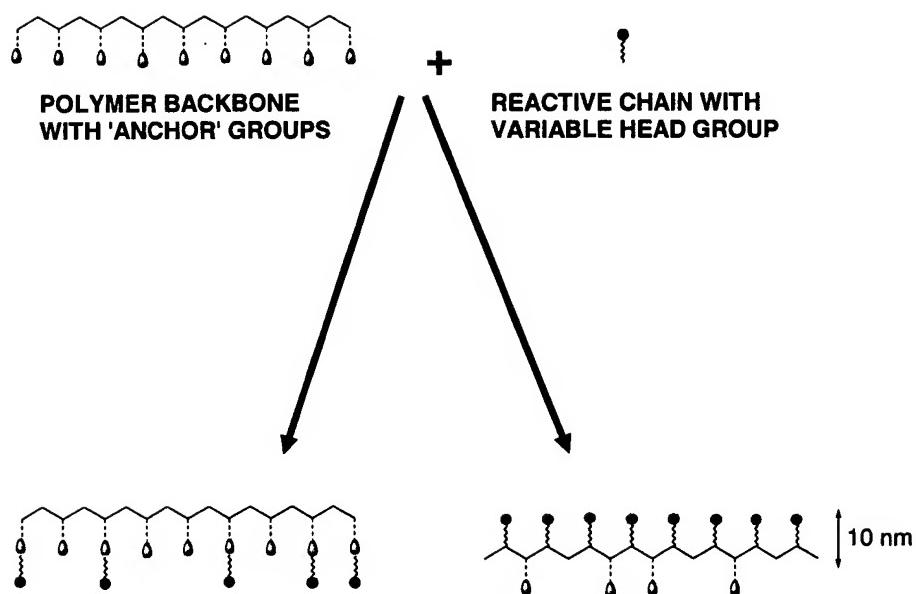


Fig. 5

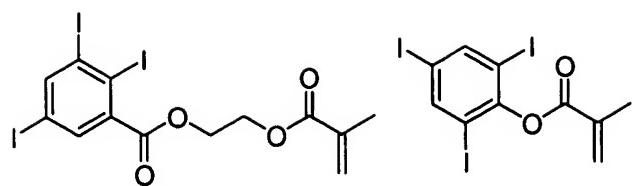


Fig. 6A

Fig. 6B

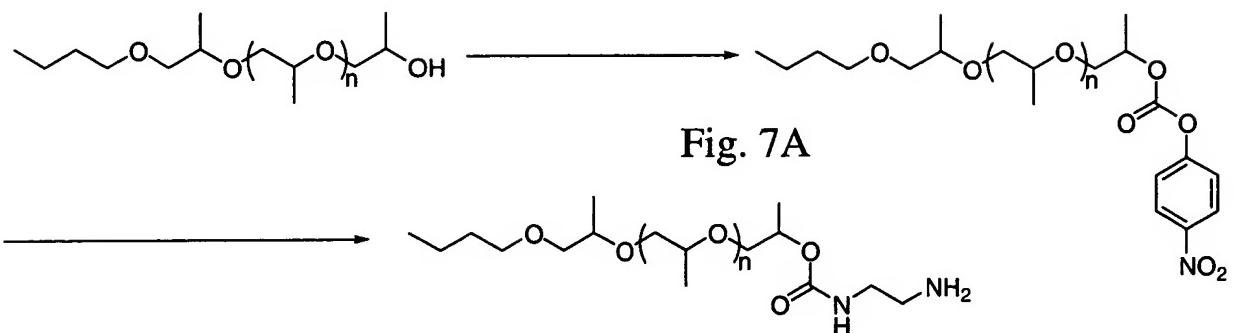
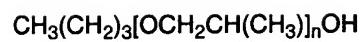


Fig. 7A

Fig. 7B

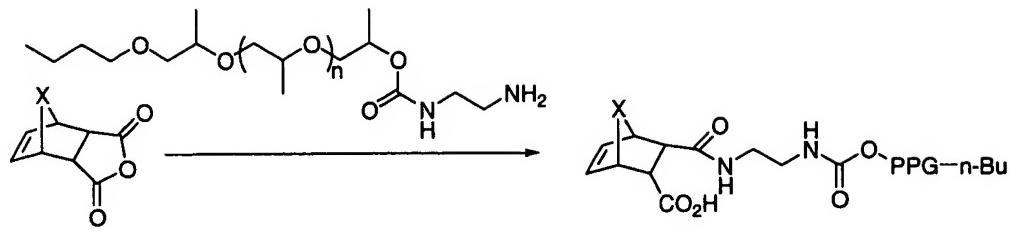


Fig. 8A

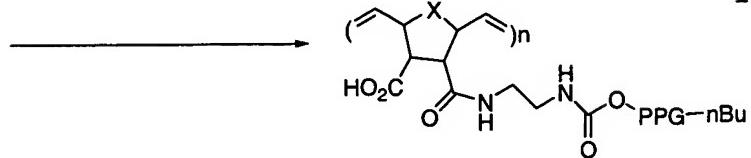


Fig. 8B

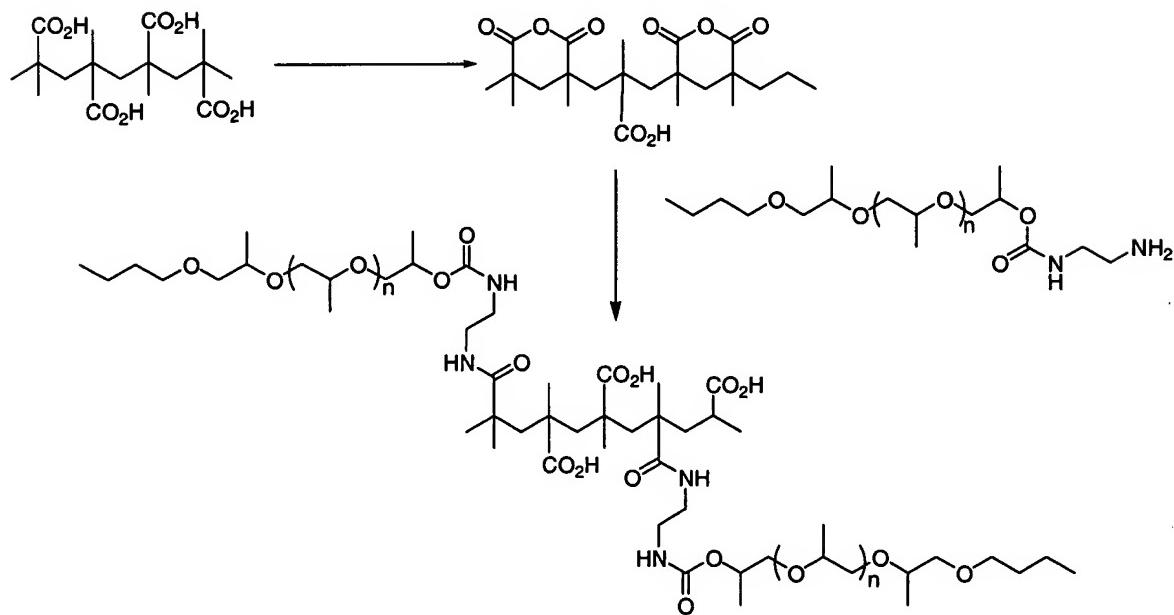


Fig. 9

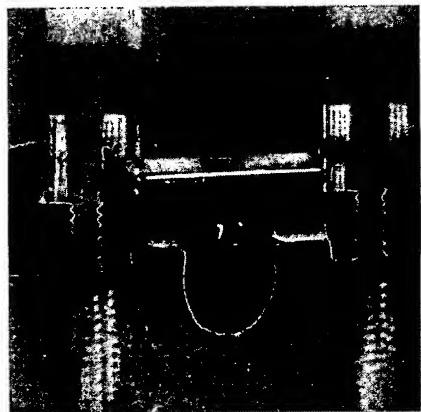
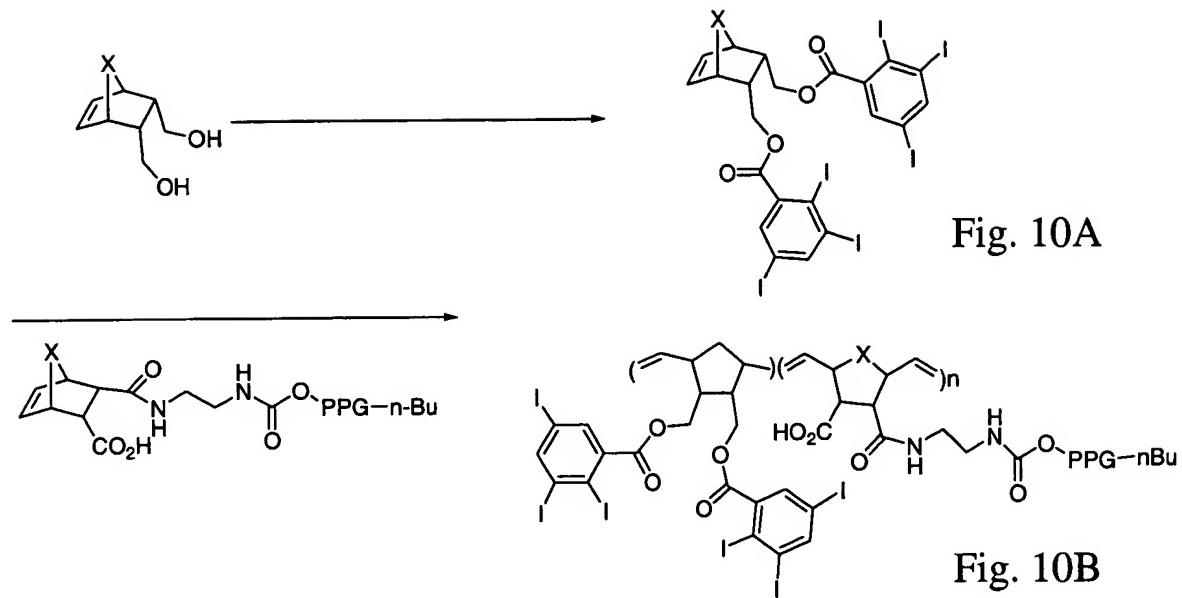


Fig. 11A

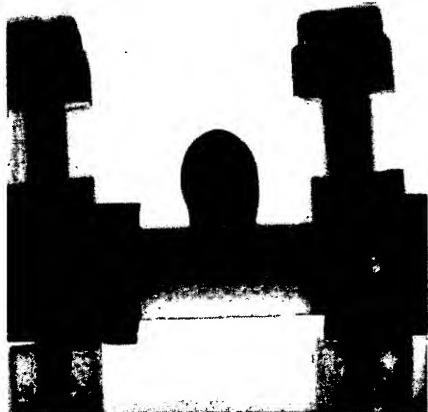


Fig. 11B

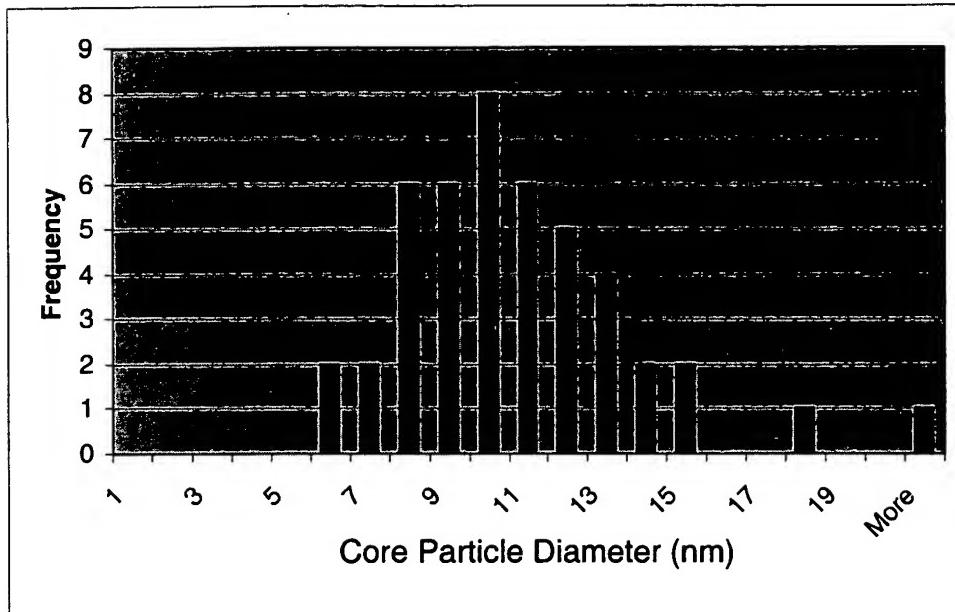


Fig. 13

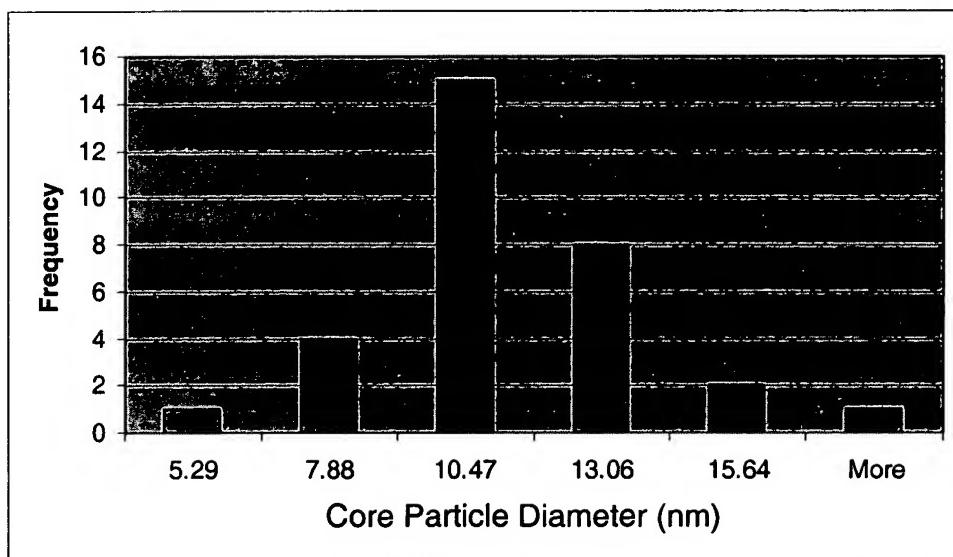


Fig. 12

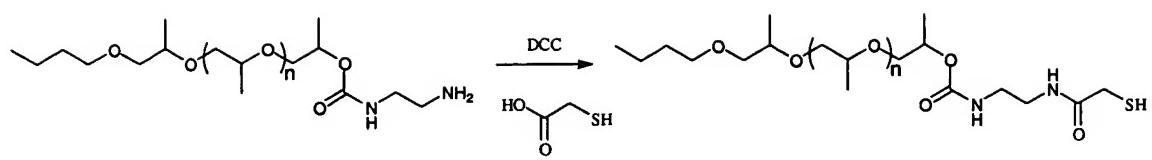


Fig. 14